

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07085273 A

(43) Date of publication of application: 31 . 03 . 95

| | | |
|--------------------------|---------------------------|---|
| (51) Int. Cl | | G06T 5/00 G03F 5/00 G09G 5/00 H04N 1/405 H04N 1/403 |
| (21) Application number: | 06234444 | (71) Applicant: AGFA GEVAERT NV |
| (22) Date of filing: | 01 . 09 . 94 | (72) Inventor: DESCHUYTERE FRANK DELABASTITA PAUL |
| (30) Priority: | 03 . 09 . 93 US 93 116298 | |

(54) FREQUENCY MODULATION HALFTONE IMAGE AND PREPARATION METHOD THEREFOR

COPYRIGHT: (C)1995,JPO

(57) Abstract:

PURPOSE: To provide a halftone screen for which object moire is suppressed to the minimum by obtaining halftone dots by locally randomly processing a decision theoretical frequency modulation screen.

CONSTITUTION: A memory 310 stores original contone image data inputted from a raster image processor 304. In the memory 320, a halftone pixel value 322 as an output value to a recorder 326 is stored. A screen function generator module 340 is provided with a B ayer matrix 342 and a random processing block 344. By the original B ayer matrix 342 and a random processing in the block 344, a random change screen function value 346 is prepared. A comparator 360 compares the prepared screen function value T346 with the corresponding pixel value P312 of the memory 310. Then, depending on whether a P value is larger or smaller than a T value, halftone values H362 to be '1' (block) or '0' (white) respectively are prepared.

